

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW INTERSECTION CONTROL BEACON (ICB) WITH ILLUMINATION AT THE INTERSECTION OF MD 275 AND CRAIGTOWN ROAD IN CECIL COUNTY, MARYLAND.  
MD 275 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.  
THE ICB IS BEING DESIGNED BY MAKING PROVISIONS FOR AN ULTIMATE FUTURE FULL SERVICE SIGNAL.

II. INTERSECTION OPERATION

THE INTERSECTION CONTROL BEACON WILL FLASH ON A 24 HOUR BASIS WITH MD 275 SIGNAL HEADS FLASHING YELLOW AND CRAIGTOWN ROAD SIGNAL HEADS FLASHING RED.

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT (410) 787-7635 TO ARRANGE FOR PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY S.H.A. AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9012	9	EA	12'1-WAY, 1-SECTION SIGNAL (ALUMINUM) MAST ARM MOUNT
9034	1	EA	12'1-WAY, 1-SECTION SIGNAL (ALUMINUM) SIDE OF POLE MOUNT
9081	1	EA	BASE MOUNTED INTERSECTION MONITOR, SIZE 6
9090	32	SF	SHEET ALUMINUM SIGNS TO CONSIST OF: (BLUE/GREEN)
			2 EACH STREET NAME SIGN (16" X VARIABLE) TO READ "CRAIGTOWN RD." (DUALFACE) - OVERHEAD MOUNTED
9090	71.2	SF	SHEET ALUMINUM SIGNS TO CONSIST OF: (BLACK/SILVER)
			1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH,MD275,RIGHT ARROW" (30"x51") - POLE MT.
			1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH,MD275,RIGHT ARROW" (30"x51") - POLE MT.
			1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH,MD275,LEFT ARROW" (48"x75") - POLE MT.
			1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH,MD275LEFT ARROW" (48"x75") - POLE MT.
9106	1	EA	SINGLE MAST ARM POLE 21' 50' SERIES WITH ANCHOR BOLTS
9106	1	EA	SINGLE MAST ARM POLE 27' 40' SERIES WITH ANCHOR BOLTS
9113	1	EA	TWIN MAST ARM POLE 27' 50'/60'-70' SERIES WITH ANCHOR

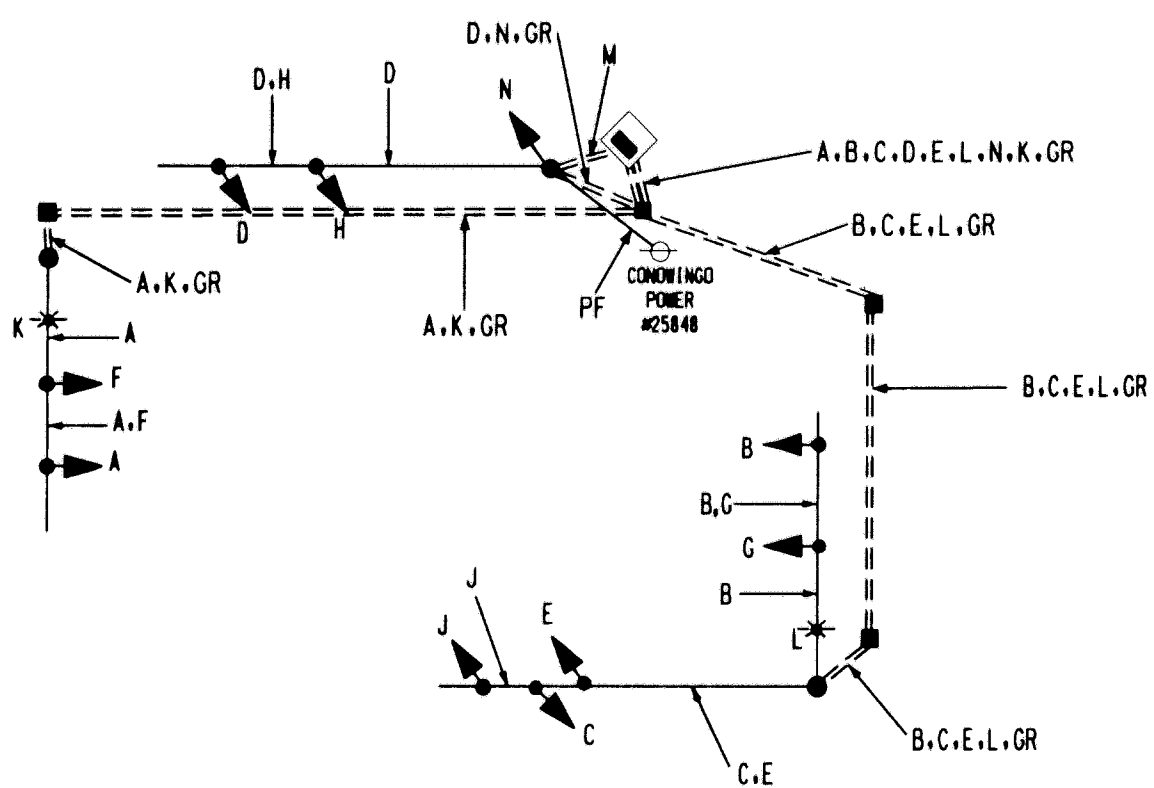
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

1001	1	EA	MAINTENANCE OF TRAFFIC
2001	1	CY	TEST PIT EXCAVATION
8001	12	CY	F/1CONCRETE FOR SIGNAL FOUNDATION
5004	50	LF	F/124' WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5013	50	LF	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
8011	10	EA	INSTALLATION SIGNAL HEAD (ANY TYPE)
8020	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
8024	60	LF	F/12" IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8028	180	LF	F/13 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED IN ROADWAY
8027	80	LF	F/13 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8030	40	LF	F/14 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	4	EA	F/1ELECTRICAL HANDHOLE
8034	4	EA	F/1GROUND ROD
8044	100	LF	F/1ELECTRICAL CABLE - 5-CONDUCTOR (NO.14 AWG)
8045	1025	LF	F/1ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
8046	370	LF	F/1ELECTRICAL CABLE - 2-CONDUCTOR (NO.12 AWG) TRAY CABLE
8049	320	LF	F/1NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8054	103.2	SF	INSTALLATION OF OVERHEAD SIGN
8056	2	EA	F/1250 WATT HPS LUMINAIRE WITH PHOTOCCELL
8057	2	EA	F/1 20' LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8070	1	EA	F/1CONTROL AND DISTRUBUTION OF EQUIPMENT
8079	2	EA	INSTALL STEEL POLE AND SINGLE MAST ARM (ANY SIZE)
8080	1	EA	INSTALL STEEL POLE AND TWIN MAST ARM (ANY SIZE)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	
	(Y)	(Y)	(Y)	(Y)	(R)	(R)	(R)	(R)	(R)	(R)	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

WIRING DIAGRAM



- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B }
- C }
- D }
- E }
- F }
- G } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- H }
- J }
- K } 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
- L }
- GR - BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- M - 3-WIRE (NO. 4 A.W.G.) FOR TRAFFIC SIGNAL ELECTRICAL SERVICE
- PF - PROPOSED OVERHEAD ELECTRICAL SERVICE BY CONOWINGO ELECTRIC CO.

REVISIONS	APPROVALS	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION MD 275 AND CRAIGTOWN ROAD			
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION	DRAWN BY: TEKIE MESKEL	F.A.P. NO. AC-STPG-000515871E	TS NO. 3921-GI	SHEET NO. 2 OF 2
	ASST. DISTRICT ENGINEER, TRAFFIC	CHECKED BY: N/A	S.H.A. NO. AW277A5P/185P	T.I.M.S. NO. C-890	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	SCALE: N/A	COUNTY: CECIL		
	DIRECTOR, TRAFFIC & SAFETY	DATE: JULY 16, 1998	LOG MILE: 07027501.67		